

Work Order ID 65774

Tuesday, January 25, 2011 10:43:34 AM

Page 1

Item ID: D3822-1KIV

Accept



Setup Start



Revision ID:

Stop



Item Name: Vertical Tunnel, LH-Ivory

Start Date: 1/25/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 2/7/2011 Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan: PLDate: 11-01-25 Tooling:

Date:

Run Start



QC:

Date: SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

100

0.00



HandThermo

Memo

0.00

Hand Finishing Thermoforming

1-Cut Sheet to required Blank size

2

DL
11/01/28

105

0.00



HandThermo

Dry Material

Memo

0.00

Hand Finishing Thermoforming

Dry Sheet as per QSI022 KYDEX

x 3

DL
11/01/28Temp: 150° FTime IN: 4:00 pm 11/01/27Time OUT: 7:00 am 11/01/28.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Start Date: 1/25/2011 Start Qty: 2.00

Required Date: 2/7/2011 Req'd Qty: 2.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

110

0.00



Thermoform

Memo

0.00

Thermoforming Machine

1-Machine Set-Up
2-Pre-heat Tool to required temp.
3-Thermoform as per Dwg and Folio #FTA025 using tool DT9073
Dwg Rev: C
Folio Rev: B

x2

DH
11/01/28

120

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

Quality Control

Visually inspect part for proper formation and texture

x2

DH
11/01/28

130

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

Quality Control

x2

DB
11/01/31

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Page 3

Tuesday, January 25, 2011 10:43:34 AM

Item ID: D3822-1KIV

Accept



Setup Start



Revision ID:

Stop



Item Name: Vertical Tunnel, LH-Ivory

Start Date: 1/25/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 2/7/2011 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140		0.00							
HandThermo	Memo	0.00				x2			DL
Hand Finishing Thermoforming	1-Trim to finished dimensions as per Dwg								11/01/31
150	QC2- Inspect parts off machine FAI/FAIB	0.00							
QC	Memo	0.00							DL
Quality Control	Complete FAI document								11/02/02
160	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							Subarlog
Quality Control						(FZ)			

W/O:		WORK ORDER CHANGES					
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Work Order ID 65774

Tuesday, January 25, 2011 10:43:34 AM

Page 4

Item ID: D3822-1KIV

Accept



Setup Start



Revision ID:

Item Name: Vertical Tunnel, LH-Ivory

Stop



Start Date: 1/25/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 2/7/2011 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

170

Identify as per dwg & Stock Location: _____

0.00



Packaging

Memo

PP65771

0.00

Packaging

180

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

mf
11-02-07

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, January 25, 2011 10:43:40 AM

Page 1

Work Order ID: 65774

Parent Item: D3822-1KIV

Parent Item Name: Vertical Tunnel, LH-Ivory

Start Date: 1/25/2011

Required Date: 2/7/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP RevA: New issue DD verified by:EC
Add Step 105 Dry Material 10/04/21 DL

IPP Rev. B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MKYD6185S.080-P3- 62015		Purchased	No			100	sf	1,245.189	7.8	15.60780			



6185 KYDEX .080"



Location

therm

Loc Qty

1245.189115

Loc Code

101.189115

1144

109703

116576

15.60780

Wh. ✓
11/02/03

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order: 65774
Description: Vertical Tunnel, LH		Part Number: D3822-1KIV/KGY
Inspection Dwg: D3822	Rev: C	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

THERMOFORMING SECTION

Description	Accept	Reject	Method of Inspection	Comments
Inside Radii less than "	✓			
Shape Definition	✓			
Texture Retention	✓			
Material imperfections such as bumps, cracks, voids, scratching	✓			

Measured by: Phu Date: 11/01/28

TRIMMING SECTION

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.8	Min	1.06"	✓			
0.3	Min	0.350"	✓			
0.55	Min	0.692"	✓			
0.040	Min	0.051"	✓			
0.050	Min	0.058"	✓			

Measured by: Phu Date: 11/02/03

Audited by: FB Date: 11/02/07

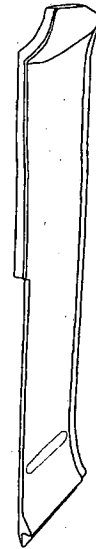
Prototype Approval: N/A Date: N/A

Rev	Date	Change	Revised by	Approved
A	09.07.29	New Issue	KJ	M

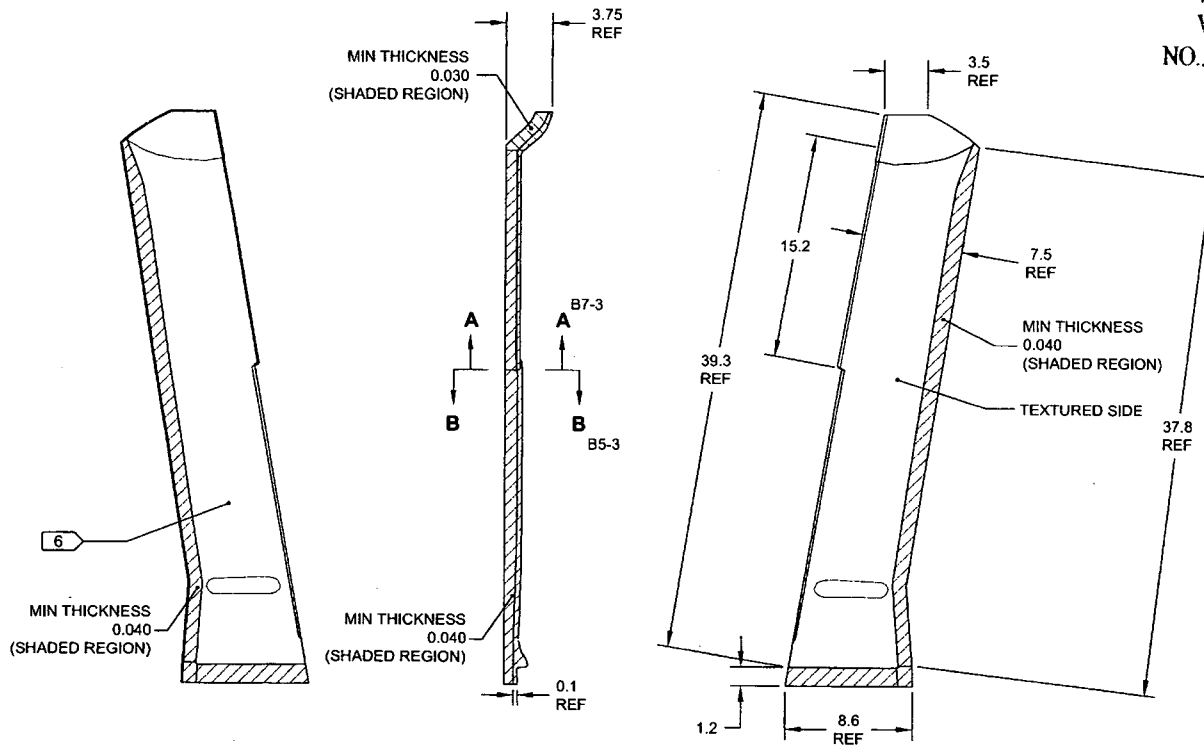
3 RETURN

ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 45274

PL 11-01-25



RELEASED
09/03/22 MP









D3822-1 VERTICAL TUNNEL, LH
(BELL 206 A/B)

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N (SEE TABLE) USING VIBRATING STYLUS
- 7) WEIGHT: 1.1 lbs
- 8) TOOLING: THERMOFORM PER MOLD DT9073 PER DART QSI 022. TRIM PER MOLD.
- 9) MINIMUM THICKNESS: 0.050" UNLESS OTHERWISE NOTED

PART NUMBER	DESCRIPTION
D3822-1KIV	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, IVORY #62015 (MKYD6185S.080-P3-62015)
D3822-1KGY	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, STEEL GRAY #52068 (MKYD6185S.080-P3-52068)

C	ADD STEEL GRAY COLOUR OPTION, ADD IVORY P/N'S D3822-1/2F-3/5-I (KIV) AND ADD STEEL GRAY P/N'S D3822-1/2I-3/5-I (KGY) (ZN A5-1, A5-2, A5-4, A5-5, A5-6)	PH	09.05.05
B	37.8 WAS 38.8 (ZN C8-4); MODIFY TOP OF -3 AND ADD VIEW J (ZN A3-4); INCREASE JOGGLE ON -3 (ZN C6-4); UPDATE VIEW F (ZN A1-4); REASON: TO IMPROVE FIT OF D206-781-151 KIT	PH	09.02.09
A	NEW ISSUE	PH	08.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3822	SHEET 1 OF 6
APPROVED		TITLE	SCALE
DE APPR.		VERTICAL TUNNEL (BELL 206 A/B)	NTS
DATE	09.05.05	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT OR ANY PART THEREOF IS UNCLASSIFIED AND IS NOT TO BE USED FOR ANY PURPOSE OR COMPILED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

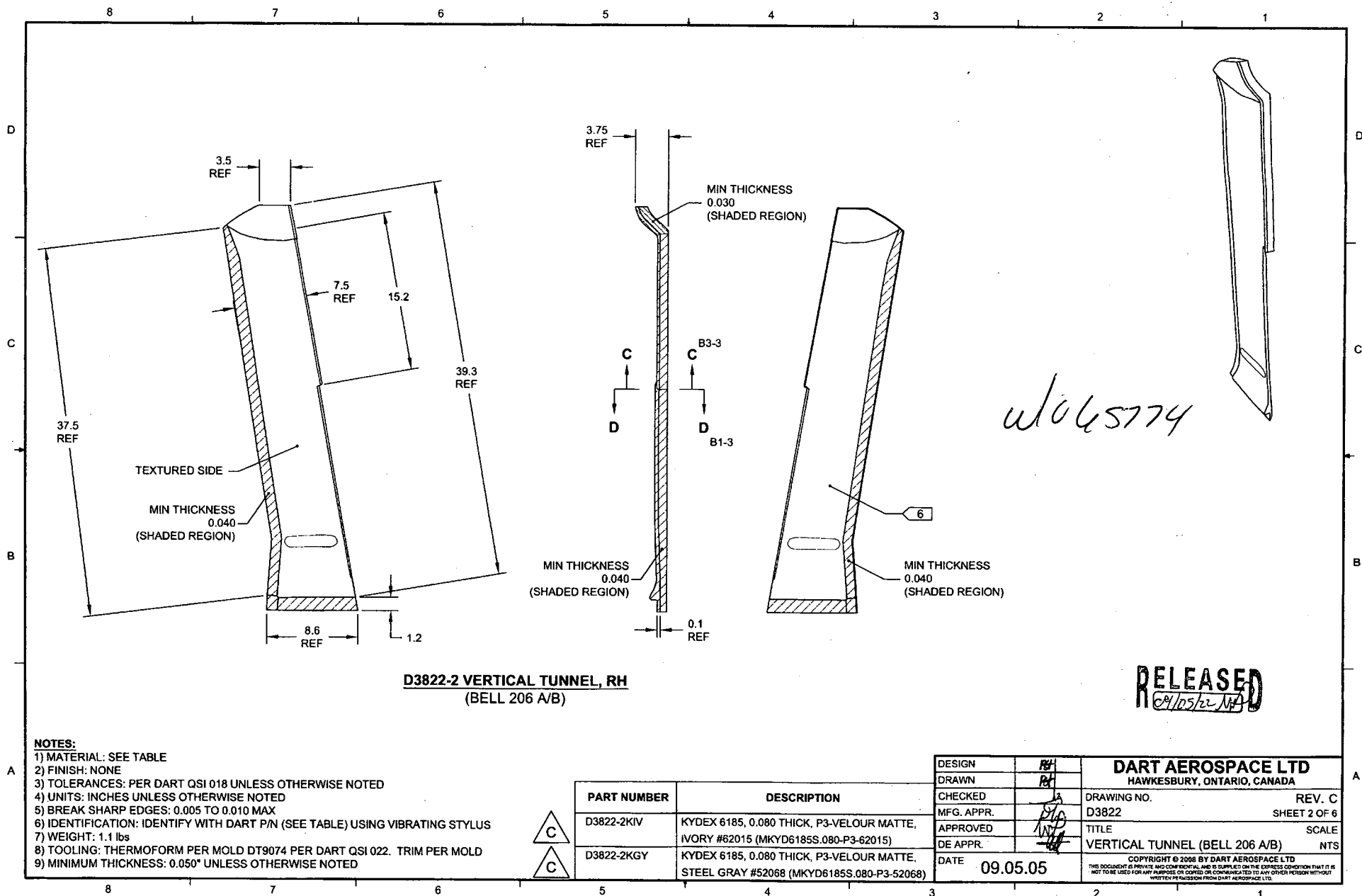
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



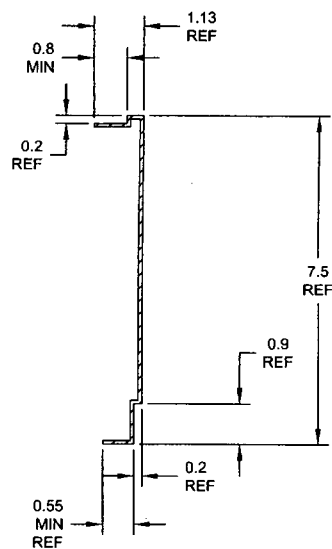
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

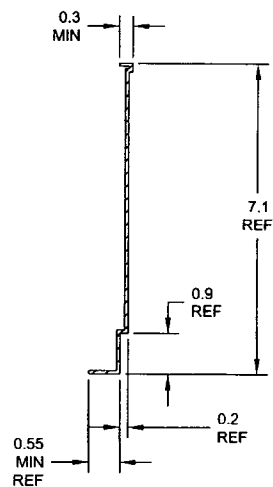
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



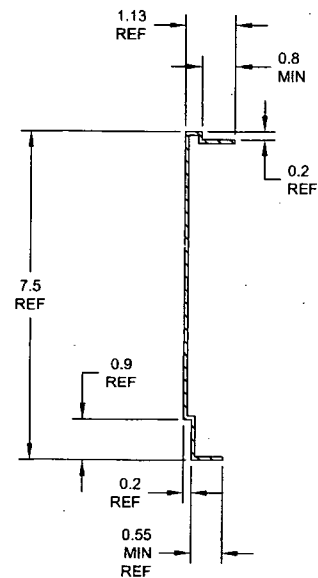
SECTION A-A

C6-1



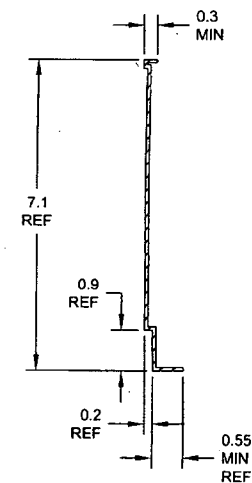
SECTION B-B

C6-1



SECTION C-C

C4-2



SECTION D-D

C4-2

w/o 65774

RELEASED
09/05/05

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3822	SHEET 3 OF 6
APPROVED		TITLE	SCALE
DE APPR.		VERTICAL TUNNEL (BELL 206 A/B)	NTS
DATE	09.05.05	<small>COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
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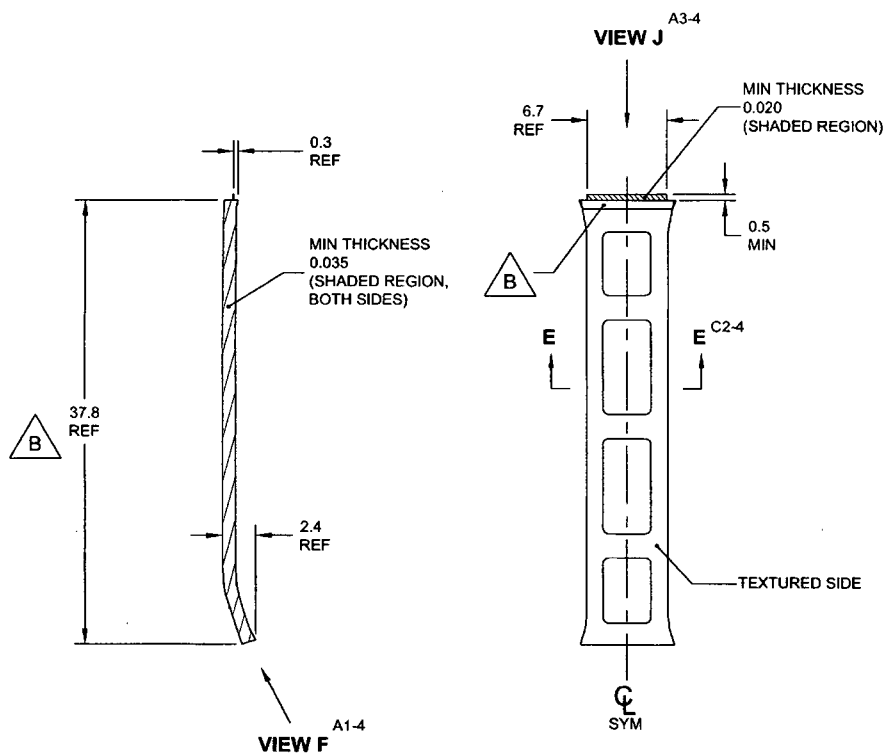
NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

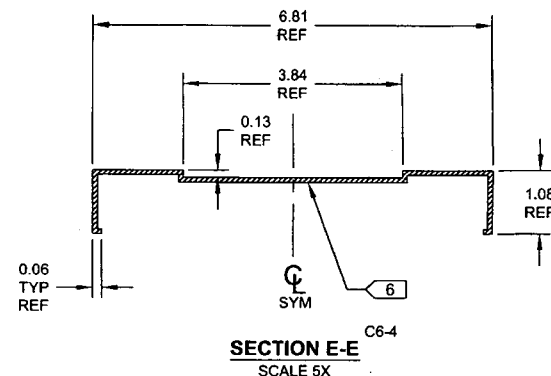
D

C

B

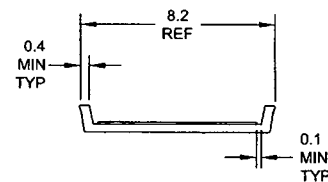


D3822-3 VERTICAL TUNNEL, AFT CENTER
(BELL 206 A/B)

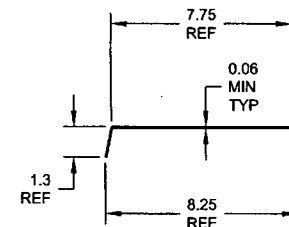


SECTION E-E
SCALE 5X

u/o 65774



VIEW J
SCALE 2X



VIEW F
SCALE 2X
(ROTATED 90° CW)

RELEASED
9/65/22 MP

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N (SEE TABLE) USING VIBRATING STYLUS
- 7) WEIGHT: 1.1 lbs
- 8) TOOLING: THERMOFORM PER MOLD DT9072 PER DART QSI 022. TRIM PER MOLD
- 9) MINIMUM THICKNESS: 0.050" UNLESS OTHERWISE NOTED

C
C

PART NUMBER	DESCRIPTION
D3822-3KIV	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, IVORY #62015 (MKYD6185S.080-P3-62015)
D3822-3KGY	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, STEEL GRAY #52068 (MKYD6185S.080-P3-52068)

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. C
MFG. APPR.		D3822 SHEET 4 OF 6
APPROVED		TITLE SCALE
DE APPR.		VERTICAL TUNNEL (BELL 206 A/B) NTS
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8 7 6 5 4 3 2 1

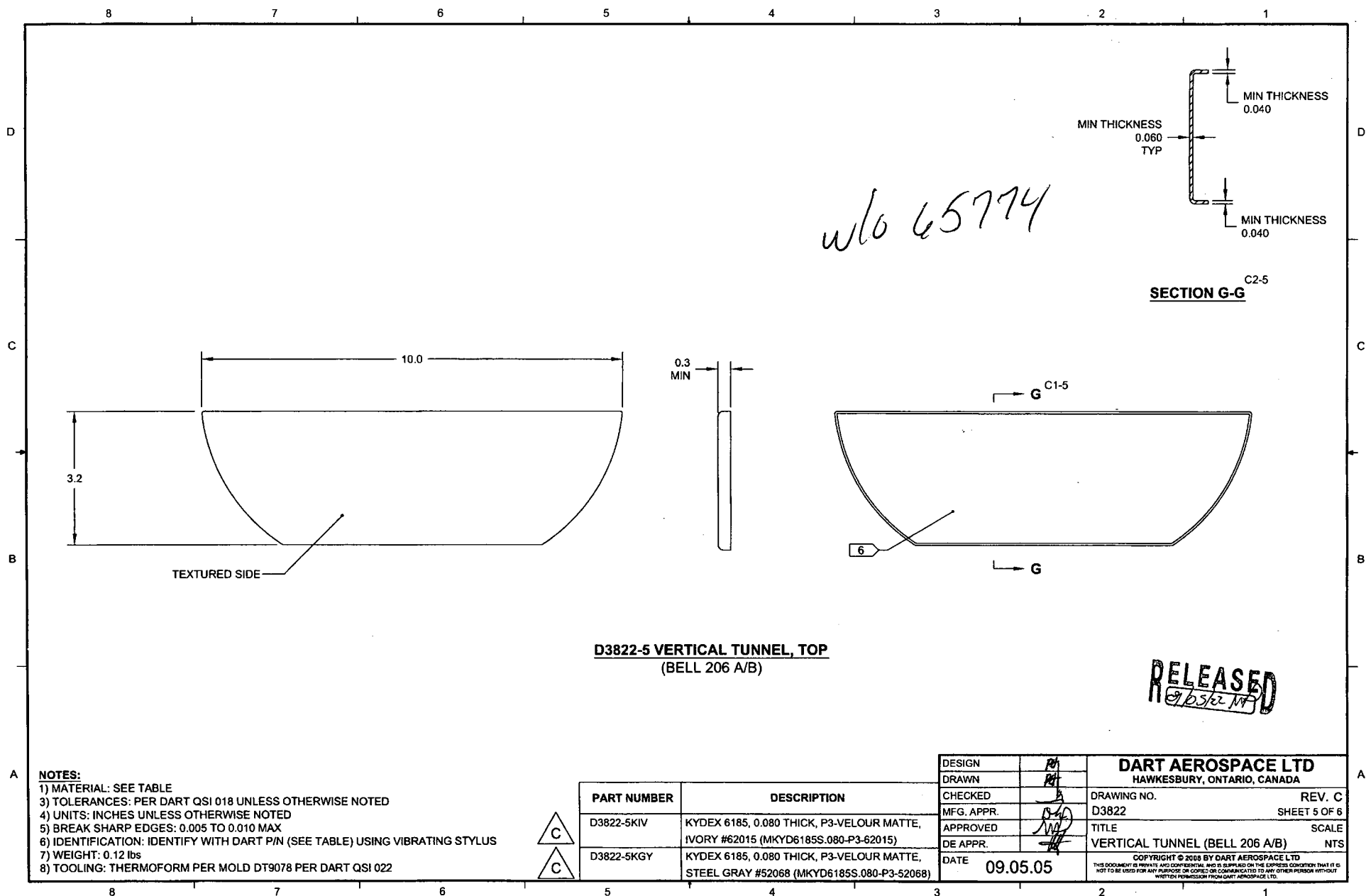
W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

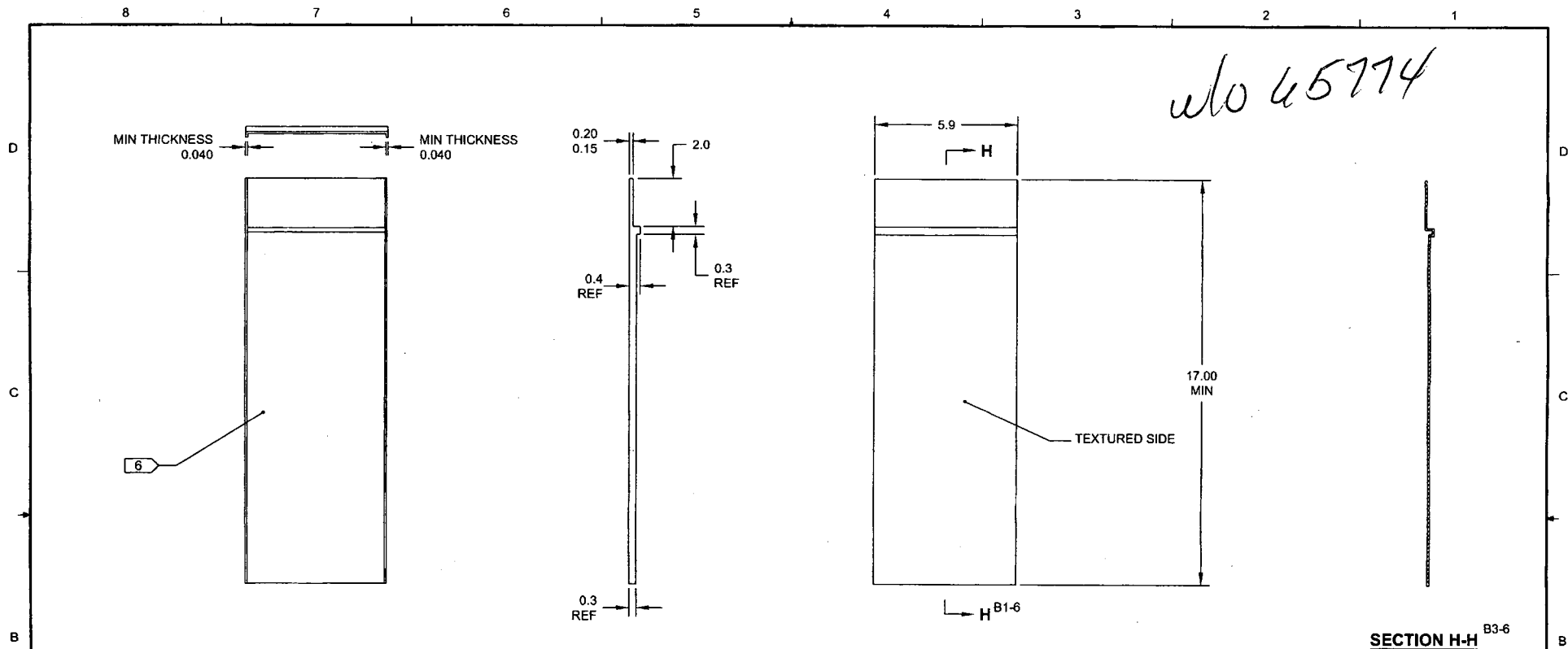
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WLO 45774

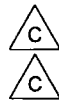


D3822-7 VERTICAL TUNNEL, LOWER
(BELL 206 A/B)

RELEASED
09/05/22

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N (SEE TABLE) WITH VIBRATING STYLUS
- 7) WEIGHT: 0.36 lbs
- 8) TOOLING: THERMOFORM PER MOLD DT9396 PER DART QSI 022
- 9) MINIMUM THICKNESS: 0.060" UNLESS OTHERWISE NOTED



PART NUMBER	DESCRIPTION
D3822-7KIV	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, IVORY #62015 (MKYD6185S.080-P3-62015)
D3822-7KGY	KYDEX 6185, 0.080 THICK, P3-VELOUR MATTE, STEEL GRAY #52068 (MKYD6185S.080-P3-52068)

DESIGN	PH	DART AEROSPACE LTD
DRAWN	PH	HAWKESBURY, ONTARIO, CANADA
CHECKED	PH	DRAWING NO. REV. C
MFG. APPR.	PH	D3822 SHEET 6 OF 6
APPROVED	PH	TITLE SCALE
DE APPR.	PH	VERTICAL TUNNEL (BELL 206 A/B) NTS
DATE	09.05.05	COPYRIGHT © 2008 BY DART AEROSPACE LTD
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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